

one plant in a wet pasture with the common rose-flowered form, Sherborn, June 18, 1913, comm. by *Miss M. L. Loomis*.—M. L. FERNALD.

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AN IMPORTANT PUBLICATION ON THE BIOLOGY OF WOOD'S HOLE.—Vol. XXXI of the Bulletin of the Bureau of Fisheries, U. S. Department of Commerce and Labor, has just been issued, 860 large octavo pages, with 274 charts and maps; all devoted to the fauna and flora of the Wood's Hole region. Naturally, the greater part is taken by the zoological side, but the botanical part, by Dr. Bradley M. Davis, is the most important paper on the marine algae of this coast that has appeared for some time. In part 2 is the "census" of the marine flora of the Wood's Hole region, giving all the species of which there is authentic record, 240 in all, with full particulars of station, etc.; this list may be considered fairly complete, and of much value to students of the region. Part 1, the "survey", will attract more general interest, as it gives the results of dredging at 458 stations in Buzzard's Bay and Vineyard Sound, in the years 1903, 1904, 1905, and a few in 1907; while the distribution of 38 of the principal species of algae is shown on charts. A uniform outline chart is used, the chart for each species being marked with stars, each showing the place of a dredging where the species was found. This graphic representation of the distribution of a species, certainly new in its application to algae, and probably to plants in general, is so much superior to anything that could be shown by descriptions or tables, that it is likely to be adopted generally when the data are sufficient to justify it. There is also a somewhat similar representation of the seasonal changes, for a period of 15 months, of the algae growing at various levels on a small group of rocks, "Spindle Rocks"; we can recall no record of any similar series of observations. The tendency of recent local reports in Europe is towards observations of all the conditions of the species recorded, and away from the mere list; Dr. Davis' work will rank with the best of the kind. By botanists who favor uniformity of nomenclature, a government publication like this, with the nomenclature conforming to the Vienna rules, will be hailed with much satisfaction.—FRANK S. COLLINS, North Eastham, Massachusetts.

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